



Philips Brilliance  
LED-backlit LCD monitor

Notebook docking display  
23" (58.4 cm)  
1920 x 1080 (Full HD)



231P4QUPB

## Simplicity with notebook docking display

expand view with single-cable

This innovative notebook docking display with multimedia enables easy port replication. Expand your viewing workspace, keep peripherals connected, access internet, all with a single SuperSpeed USB cable.

### Simplicity makes sense

- Connect with Internet, Intranet with built in ethernet port
- Single USB 3.0 cable docks your notebook to the display
- Access all peripherals and keyboard, mouse from the hub
- Transmit video and audio from the notebook with single cable
- True plug and play for hassle free dual display setup

### Sustainable Eco-friendly solution

- PowerSensor saves up to 80% energy costs
- PVC-BFR free housing
- IPS technology for full colors and wide viewing angles

### Ergonomic design

- Low bezel-to-table height for maximum reading comfort
- SmartErgoBase enables people-friendly ergonomic adjustments

**PHILIPS**

LED-backlit LCD monitor  
Notebook docking display 23" (58.4 cm), 1920 x 1080 (Full HD)

# Highlights

## Expand view with single cable



This innovative large Philips display enables easy port replication for any notebook. Especially suitable for latest Ultra book type devices with limited connectors, this display with built-in USB 3.0 hub, Ethernet, and stereo speakers enables you to transmit video, audio, and connect to internet or intranet directly with a single cable USB connection. By this advanced USB 3.0 or USB 2.0 plug and play connection, you can now expand your desktop using both your NBPC and Philips display's real-estate without having to worry about cumbersome resolution adjustments or mess around with cables.

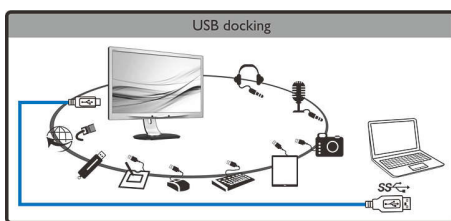
## Transmit from single cable

Transmit video and audio from the notebook with single cable

## Connect by built in ethernet

Connect with Internet, Intranet with built in ethernet port

## USB hub for peripherals



You can now connect optional full sized Keyboard and mouse to this innovative Philips display's USB hub to improve your productivity. Simply connect your Notebook to this display with a single USB cable, and you are ready to utilize the attached additional

peripherals like external HDD, camera, USB drive along with Full HD video, Audio, and Internet functions. Should you prefer, you can of course still utilize your NBPC's keyboard and track pad as usual.

## True plug and play

True plug and play for hassle free dual display setup

## SmartErgoBase



The SmartErgoBase is a monitor base that delivers ergonomic display comfort and provides cable management. The base can swivel, tilt and rotate to various angles to ensure maximum comfort. The height adjustable stand guarantees the optimal viewing level, reducing the physical strains of a long workday, while cable management reduces cable clutter and keeps the workspace neat and professional.

## Low bezel-to-table height

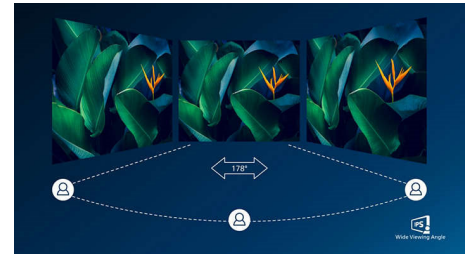


The Philips monitor, thanks to its advanced SmartErgoBase, can be lowered down almost to desk level for a comfortable viewing angle. Low bezel-to-table height is the perfect solution if you use bifocals, trifocals or progressive lens glasses for your computing work. Additionally, it allows for users with greatly different heights to use the monitor in

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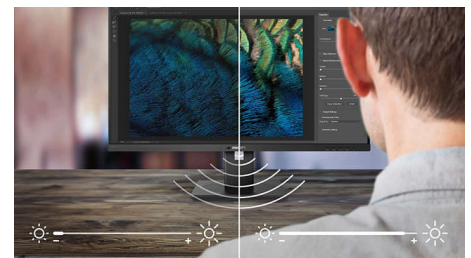
their preferred angle and height settings, helping them reduce fatigue and strain.

## IPS technology



IPS displays use an advanced technology which gives you extra wide viewing angles of 178/178 degree, making it possible to view the display from almost any angle - even in 90 degree Pivot mode! Unlike standard TN panels, IPS displays gives you remarkably crisp images with vivid colors, making it ideal not only for Photos, movies and web browsing, but also for professional applications which demand color accuracy and consistent brightness at all times.

## PowerSensor



PowerSensor is a built-in 'people sensor' that transmits and receives harmless infrared signals to determine if user is present and automatically reduces monitor brightness when user steps away from the desk, cutting energy costs by up to 80 percent and prolonging monitor life

## PVC-BFR free housing

This Philips monitor housing is free from brominated flame retardant and polyvinyl chloride (PVC-BFR free)



SmartErgo Base



Wide Viewing Angle



PowerSensor



Ethernet



Wide Viewing Angle



SmartImage™



Built-in Speaker



SmartErgo Base



USB Monitor

# Specifications

## Connectivity

- Signal Input: VGA (Analog)
- Sync Input: Separate Sync (VGA only), Sync on Green (VGA only)

## Picture/Display

- Panel Size: 23 inch / 58.4 cm
- Aspect ratio: 16:9
- LCD panel type: IPS LCD
- Backlight type: W-LED system
- Pixel pitch: 0.265 x 0.265 mm
- Optimum resolution: 1920 x 1080 @ 60Hz
- Brightness: 250 cd/m<sup>2</sup>
- Display colors: 16.7 M
- Contrast ratio (typical): 1,000:1
- SmartContrast: 20,000,000:1
- Response time (typical): 14 (Gray to Gray) ms
- Viewing angle: 178° (H) / 178° (V), @ C/R &gt; 10
- Picture enhancement: SmartImage
- Effective viewing area: 509.18 x 286.41 mm
- Scanning Frequency: 30 -83 kHz (H) / 56 -75 Hz (V)
- sRGB
- SmartResponse (typical): 7 ms (GTG\_BW)

## USB Connectivity

- Audio In/Out: through USB
- Headphone out: through USB
- Microphone in: through USB
- RJ45: through USB, 1Gbps
- Signal Input: USB 3.0 upstream
- USB: USB 2.0 x 1, USB 3.0 x 2

## Convenience

- Built-in Speakers: 1.5Wx2
- Plug & Play Compatibility: DDC/CI (VGA only), Mac OS X, sRGB, Windows 10 / 8.1 / 8 / 7
- User convenience: SmartImage, Input, PowerSensor, Menu, Power On/Off
- OSD Languages: English, French, German, Italian, Portuguese, Russian, Simplified Chinese, Spanish, Korean
- Other convenience: Kensington lock, VESA mount (100x100mm)
- Control software: SmartControl Premium(VGA only), DisplayLink Graphics Software

## Stand

- Height adjustment: 130 mm

- Pivot: 90 degree
- Swivel: -65/65 degree
- Tilt: -5/20 degree

## Power

- ECO mode: 11.3 W (typ.)
- Power supply: 100-240VAC, 50-60Hz, Built-in
- Off mode: Zero watts with AC switch
- On mode: 20.2 W (typ.) (EnergyStar 6.0 test method)
- Standby mode: <math>\leq 0.5\text{ W}</math> (typ.)
- Power LED indicator: Operation - White, Standby mode- White (blinking)

## Dimensions

- Packaging in mm (WxHxD): 600 x 400 x 263 mm
- Product without stand (mm): 547 x 343 x 60 mm
- Packaging in inch (WxHxD): 23.6 x 15.7 x 10.4 inch
- Product without stand in inch: 21.5 x 13.5 x 2.4 inch
- Product with stand(max height): 547 x 515 x 220 mm
- Product with stand(max height): 21.5 x 20.3 x 8.7 inch

## Weight

- Product with packaging (kg): 8.41 kg
- Product with stand (kg): 6.00 kg
- Product with packaging (lb): 18.50 lb
- Product with stand (lb): 13.20 lb
- Product without stand (kg): 3.90 kg
- Product without stand (lb): 8.58 lb

## Operating conditions

- Altitude: Operation: +12,000ft (3,658m), Non-operation: +40,000ft (12,192m)
- Temperature range (operation): 0°C to 40°C °C
- MTBF: 30,000 (backlight) hour(s)
- Relative humidity: 20%-80 %
- Temperature range (storage): -20°C to 60°C °C

## Sustainability

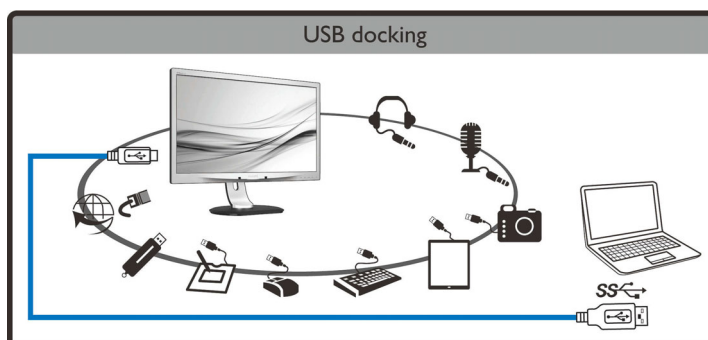
- Environmental and energy: PowerSensor, EnergyStar 6.0, TCO Certified Edge, RoHS
- Post consumer recycled plastic: 65%
- Recyclable packaging material: 100 %
- Specific Substances: PVC / BFR free housing, Mercury free

## Compliance and standards

- Regulatory Approvals: CE Mark, cETLus, FCC Class B, PSB, SEMKO, TUV Ergo, TUV/GS, WEEE, CCC, CECP, C-tick, EAC, EMC

## Cabinet

- Finish: Texture
- Foot: Black
- Front bezel: Black
- Rear cover: Black



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\* We recommend to use USB 3.0 connection between your Notebook PC and the Philips display to ensure smooth images, video and audio.

\* Activities such as screen sharing, on-line streaming video and audio over the Internet can impact your network performance. Your hardware, network bandwidth and its performance will determine overall audio and video quality.

\* The notebook, keyboard, mouse as shown are for illustration purpose only, not included in the product.

\* "IPS" word mark / trademark and related patents on technologies belong to their respective owners.

\* Smart response time is the optimum value from either GtG or GtG (BW) tests.